

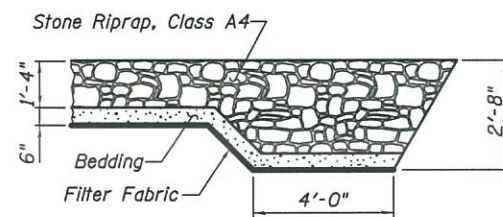
BENCHMARK: BM 201 - Cut square on SW wingwall of Jonathan Branch bridge, SN 070-0027 Sta. 138+36, 22.3' RT Elev. 686.95 (NAVD 88)

EXISTING STRUCTURE: SN 070-0027 was originally built in 1931 as S.B.I. Rte. 133, Section 119. In 1977, the superstructure was replaced and the abutments were repaired as F.A. Route 749, Section 119BR-1. The structure consists of single-span precast channel beams on closed abutments supported by spread footings on untreated timber piles. Inside face to inside face of abutments is 18'-7". Superstructure width is 41'-3" out-to-out. There is a 14°-56'-30" skew left-forward. Traffic will be maintained using a detour route during construction.

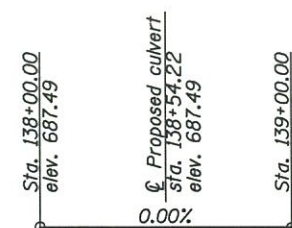
No salvage.

Precast alternate is not allowed.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



SECTION A-A



PROFILE GRADE
(Along E roadway)

APPROVED

APR 16 2015

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

WATERWAY INFORMATION

Flood		Discharge (cfs)		Waterway Opening (sq. ft.)		Exist. Overtopping Elev. 687.35 @ Sta. 139+00		Prop. Overtopping Elev. 687.49 @ Sta. 139+00	
						Exist.	Prop.	Exist.	Prop.
Design	10	227	109	121	682.6	0.0	0.0	682.6	682.6
Base	50	363	127	139	683.6	0.1	0.1	683.7	683.7
Scour Design Check	100	423	131	140	683.8	0.2	0.1	684.0	683.9
Max Calc	200	485	134	140	684.0	0.2	0.2	684.2	684.2
	500	568	138	140	684.2	0.3	0.3	684.5	684.5

10 Year Outlet Velocity from Existing Structure: 2.1 fps
10 Year Outlet Velocity from Proposed Structure: 1.9 fps



USER NAME = jlf
ESCA PROJECT NO. 1070.13
PLOT SCALE = 8 1/2" = 1'-0"
PLOT DATE = 4/8/2015 7:52:48 AM

DESIGNED - SHL 11/14
CHECKED - ELH 04/15
DRAWN - DWH/KAH 11/14
CHECKED - RDP 04/15

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Stone Riprap, Class A4, typ.

Drain opening in headwall, typ.

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